

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STIGLER EAST QUADRANGLE
OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)



EXPLANATION

1000
800

OVERBURDEN ISOPACHS—Showing thickness of overburden, in feet, from the surface to top of the coal bed. Isopach interval 200 feet (61.0m).

123
(1.5)

COAL TEST MEASUREMENT—Showing thickness of overburden, in feet, from the surface to top of the coal bed. Mining ratio numbers in brackets.

474

OIL AND GAS TEST HOLE—Showing thickness of overburden, in feet, from the surface to top of the coal bed.

ST

INFERRED TRACE OF COAL BED OUTCROP—Showing symbol of name of coal bed.

NORMAL FAULT—Bar and ball on downthrown side. Dashed where approximately located.

NOTE: Thickness rounded to nearest foot.
To convert feet to meters, multiply feet by 0.3048.

MINING-RATIO CONTOUR—Number indicates cubic yards of overburden per ton of recoverable coal by surface mining methods. Contours shown only in areas underlain by coal of Reserve Base thickness within the stripping-limit (in this quadrangle, the 150-foot-overburden isopach). To convert mining ratio to cubic meters of overburden per metric ton of recoverable coal, multiply mining ratio by 0.8428.

150 SL STRIPPING-LIMIT LINE—Boundary for surface mining (in this quadrangle, the 150-foot-overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 80 percent, and away from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden isopach) where the recovery factor is 50 percent.

NOTE: Mining Ratios have not been drawn in mined-out areas or in areas below Reserve Base thickness.

NOTE: STRUCTURAL control too unreliable to contour overburden in this area.

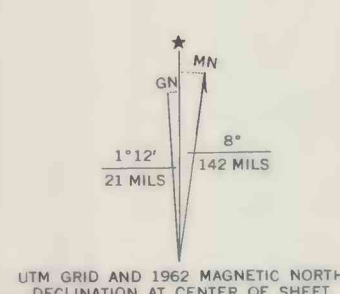
Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958. Field checked 1962

Polyconic projection. 1927 North American datum 10,000-foot grid based on Oklahoma coordinate system, south zone 1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked



SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE OKLAHOMA GEOLOGICAL SURVEY, NORMAN, OKLAHOMA 73069
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



ROAD CLASSIFICATION

Medium-duty ——— Light-duty ———

Unimproved dirt ———

State Route

STIGLER EAST, OKLA.

N3515—W9500/7.5

1962

AMS 6954 I SE—SERIES YB83

This map intended for land-use planning purposes only.

COMPILED IN 1980

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE STIGLER EAST 7.5-MINUTE QUADRANGLE, HASKELL AND MUSKOGEE COUNTIES, OKLAHOMA

BY GEOLOGICAL SERVICES OF TULSA, INC., AND B. T. BRADY, USGS

PLATE 6
OVERBURDEN ISOPACH
AND MINING RATIO MAP OF
THE STIGLER COAL BED